

## MATERIAL SAFETY DATA SHEET

HILL BROTHERS CHEMICAL COMPANY
15017 E. Clark Ave., City of Industry, California 91745 / (213) 333-2251

CHEMICAL NAME:	SECTION I			ORANGE COUNTY CHEMICAL	CO.	\ <u></u>
1.2.24.1.1.15.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	onium Hydroxide DPM_P1			1230 E. ST. GERTRUDE		
CHEMICAL FAMILY: Inorganic Bases	950	0-21		SANTA ANA, CALIFORNIA 92707		
SYNONYMS:	<u> </u>			MOLECULAR WEIGHT:		v. nvikkistada
TRADE NAME:	<del>andarda</del> Segungapa		FORMUL	A: NH40H		
Aqua Ammonia				MIZON		
SECTI	ON II	- HAZAR	DOUS IN	GREDIENTS	14533 KV	
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALL	DYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS NFPA 704M	1		BASE METAL ALLOYS			
CATALYST CATALYST	es (	in a beautiful and				arangada yay sangara
VEHICLE OF			METALL	IC COATINGS		Treate une le cuellée
SOLVENTS 8		wie is some service	FILLER I	METAL ATING OR CORE FLUX		
ADDITIVES - 22			OTHERS	Aqua Ammonia 24.5% NH3		
OTHERS 2		nji katiya na mata	Aqua A	Ammonia 29.44% NH3 nia Vapor		50*ppr
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TVL (Units)
	·				1. 4	
			/ 1.3.	e 1940 e 1966 de 1869 e 1869 de 1860 e - Europe de 1869 e e en 1869 e e en 1869 e e	is Professi	
	aware dewe			santa en la companya de la companya Anna de la companya d		
	SECTI	ION-III - P	HYSICAL	DATA		
BOILING POINT ('F) Decompos			SPECIFIC	GRAVITY (H <sub>2</sub> 0=1) 29.4% 24.5%	10.	8974 9121
950%		psia	PERCEN	T, VOLATILE		
	4.8 psia		<u> </u>	ATION RATE		
VAPOR DENSITY (AIR=1) (ammonia vapo	4.000000	0.6	(	=1)	1 1000	8181818181818
SOLUBILITY IN WATER	Solu	Proceedings of			Agardaga.	o essió Aleman e en estra en e
APPEARANCE AND ODOR Colorless	liqui	ld - pui	ngent		<u>zieitzek</u> Santa	<u> Aran 2.</u> Aran Maran Er
SECTION II	/ E1	DE AND E	YPI OSIO	N HAZARD DATA		
FLASH POINT (Method used)				MABLE LIMITS Let		Uel
None 200 Marie and the second					and to a	
None EXTINGUISHING MEDIA					sa se se se s	. July propriet
None EXTINGUISHING MEDIA Non-Flammable under usual conceptations and conceptations are conceptations.			ata cho			
None EXTINGUISHING MEDIA Non-Flammable under usual cond			ata she			
None EXTINGUISHING MEDIA Non-Flammable under usual conspecial fire fighting procedures Refer to manufacturing chemic	al sa	afety d		et SD-13 section 6.2		
None EXTINGUISHING MEDIA Non-Flammable under usual conceptations and conceptations are conceptations.	al sa	afety d		et SD-13 section 6.2		

THRESHOLD LIMIT VALUE 50ppm (ammonia vapor) see anhydrous ammonia  EFFECTS OF OVEREXPOSURE Irritation of eyes, upper respiratory tract and skin.  EMERGENCY AND FIRST AID PROCEDURES Inhalation: Remove to fresh air, apply artificial respiration, get medical attention.  Eye Contact: Flush with water for at least 15 minutes, get medical attention.  Skin Contact: Flush with water. Ingestion: Get medical attention.  SECTION VI-REACTIVITY DATA  STABILITY  UNSTABLE  STABLE  X  INCOMPATIBILITY (Materials to avoid) Corrodes copper, and copper alloys. HAZARDOUS DECOMPOSITION PRODUCTS	ntion
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HAZARDOUS DECOMPOSITION PRODUCTS	
HAZARDOUS MAY OCCUR CONDITIONS TO AVOID POLYMERIZATION	1
WILL NOT OCCUR X	_
SECTION VII - SPILL OR LEAK PROCEDURES  STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush with plenty of water.	
WASTE DISPOSAL METHOD	
Flush with plenty of water.	
DISPOSAL MUST CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS	_
TOTAL LAWS	
SECTION VIII - SPECIAL PROTECTION INFORMATION	
RESPIRATORY PROTECTION (Specify type) Chemical cartridge respirator, cannister mask, self contained breathing apparatus VENTILATION to LOCAL EXHAUST keep NH <sub>2</sub> SPECIAL	, et
below 50 ppm MECHANICAL (General) See MCSDS, SD-13 section 6.2	
Rubber  EYE PROTECTION  Gas, tight, goggles	$\dashv$
OTHER PROTECTIVE EQUIPMENT	1
coefficient of the same target appoints are recommended. Unem safety data sheet SD-13	=
SECTION IX - SPECIAL PRECAUTIONS	
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Section 8.3.4	

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.